TM 13: Student Work A

Dog Pen Problem **Name** A

A dog trainer wants to make the largest possible pen for his dogs. He has 42 feet of fence. What is the largest area the pen can have?

Length	Width	Perimeter	Area
15	6	42	90
13	8	42	104
11	10	42	110 *
1			

15 x 6 = 90

13 x 8 = 104

The rectangle with the largest area has a length of 11 and a width of 10. or 10 x 11

TM 13: Student Work B

Dog Pen Problem **Name** B

A dog trainer wants to make the largest possible pen for his dogs. He has 42 feet of fence. What is the largest area the pen can have?

Length	Width	Perimeter	Area
10	11	42	110
20	1	42	20
8	13	42	104
7	14	42	98
10.5	10.5	42	110.25 *
5	16	42	80
		42	

The rectangle with the largest area has a length of 10.5 and a width of 10.5.

TM 13: Student Work C

Dog Pen Problem **Name** C

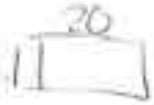
A dog trainer wants to make the largest possible pen for his dogs. He has 42 feet of fence. What is the largest area the pen can have?

Length	Width	Perimeter	Area
10	11	42	110
20	1	42	20
10.5	10.5	42	441? 110
12	9	42	108
		42	
		42	
		42	
		42	
		42	
		42	
		42	
		42	
		42	

The rectangle with the largest area has a length of _____ and a width of _____.

42÷4= 10.5

TM 13: Student Work D



Dog Pen Problem **Name** D

A dog trainer wants to make the largest possible pen for his dogs. He has 42 feet of fence. What is the largest area the pen can have?

Length	Width	Perimeter	Area
10	11	42	110
20	1	42	20
40	1	42	40
15	6	42	90
19	2	42	38
13	8	42	104
14	7	42	98
16	5	42	80
17	4	42	68
18	3	42	54
12	9	42	108

The rectangle with the largest area has a length of _____ and a width of _____.

TM 13: Student Work E

Dog Pen Problem **Name** E

A dog trainer wants to make the largest possible pen for his dogs. He has 42 feet of fence. What is the largest area the pen can have?

Length	Width	Perimeter	Area
8	13	42	104
20	1	42	20
19	2	42	38
18	3	42	54
17	4	42	68
16	5	42	80
15	6	42	90
14	7	42	98
13	8	42	104
12	9	42	108
11	10	42	110
10	11	42	110
9	12	42	108

The rectangle with the largest area has a length of 10 and a width of 11.

TM 13: Student Work F

Dog Pen Problem **Name** F

10.25
10.25
51.25
20.50
102.50
174.25

A dog trainer wants to make the largest possible pen for his dogs. He has 42 feet of fence. What is the largest area the pen can have?

Length	Width	Perimeter	Area
10 1/2	10 1/2	42	157.5

The rectangle with the largest area has a length of 10 1/2 and a width of 10 1/2.

10.5
10.5
52.5
105.0
157.5

TM 13: Student Work G (front)

G (front)

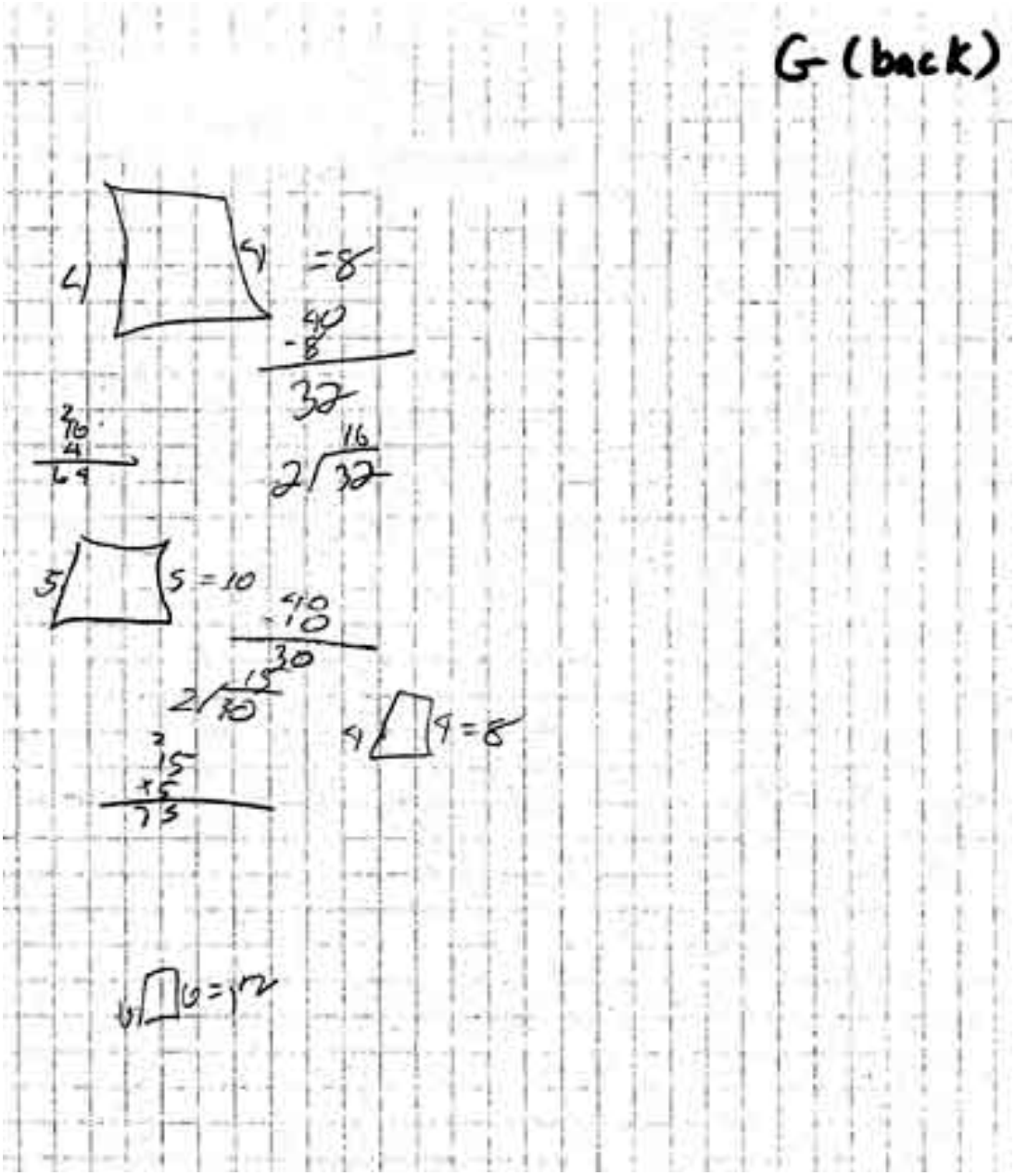
Dog Pen Problem Name

A dog trainer wants to make the largest possible pen for his dogs. He has 40 feet of fence. What is the largest area the pen can have?

Length	Width	Perimeter	Area
10	10	40	100
18	2	40	
7	13	40	
1	19	40	19
2	18	40	36
3	17	40	36
4	16	40	64
5	15	40	75
6	14	40	
9	13	40	
8	12	40	
9	11	40	
10	10	40	

The rectangle with the largest area has a length of _____ and a width of _____.

TM 13: Student Work *G* (back)



TM 13: Student Work H (front)

H (front)

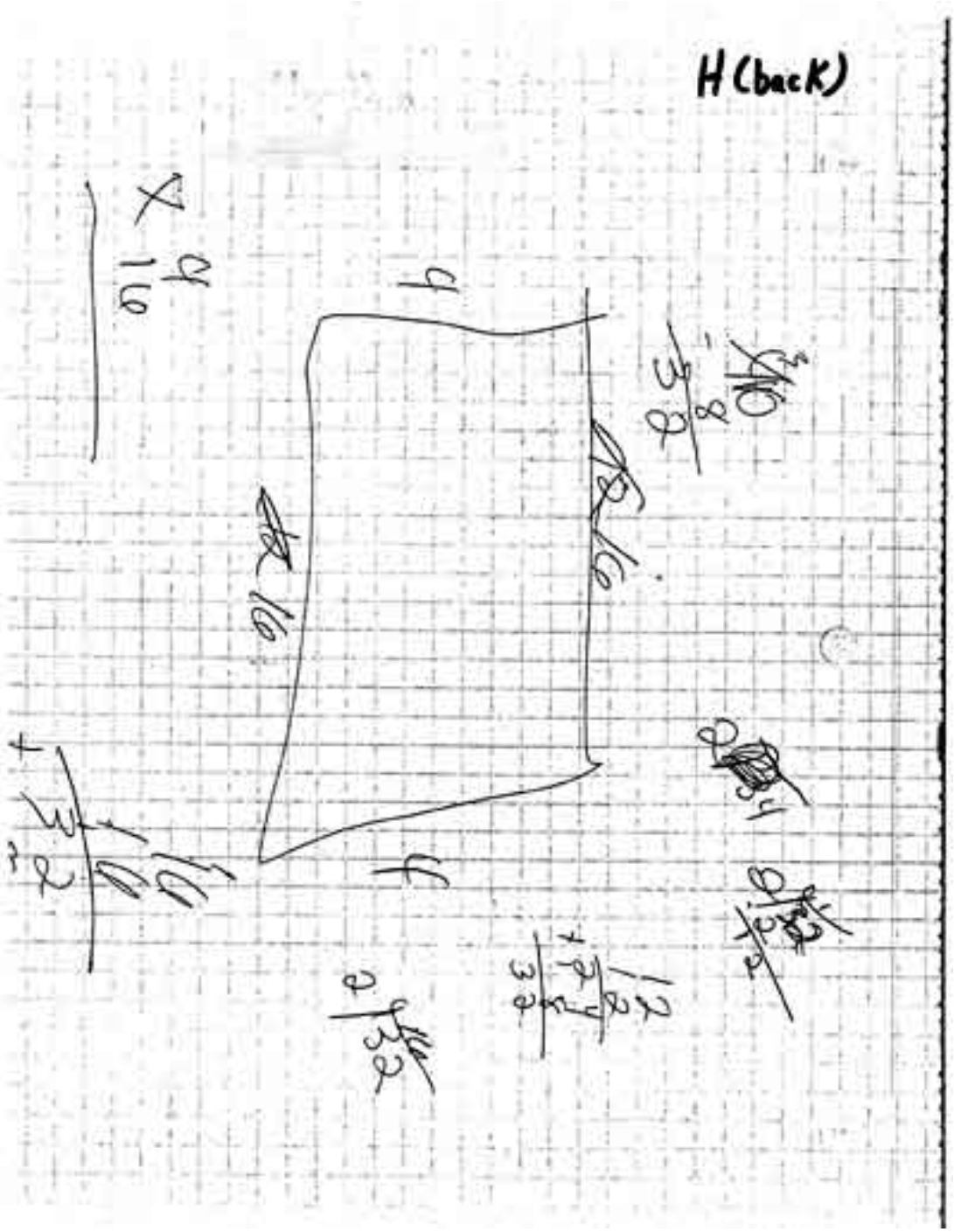
Dog Pen Problem Name [redacted]

A dog trainer wants to make the largest possible pen for his dogs. He has 40 feet of fence. What is the largest area the pen can have?

Length	Width	Perimeter	Area
9	11	20	99
18	2	40	36
9	5	40	45
1	16	40	16
2	16	40	36
3	17	40	
4	16	40	64 64
5	15	40	75
6	14	40	84
		40	
		40	
		40	
		40	

The rectangle with the largest area has a length of _____ and a width of _____.

TM 13: Student Work H (back)



TM 13: Student Work I (front)

I (front)

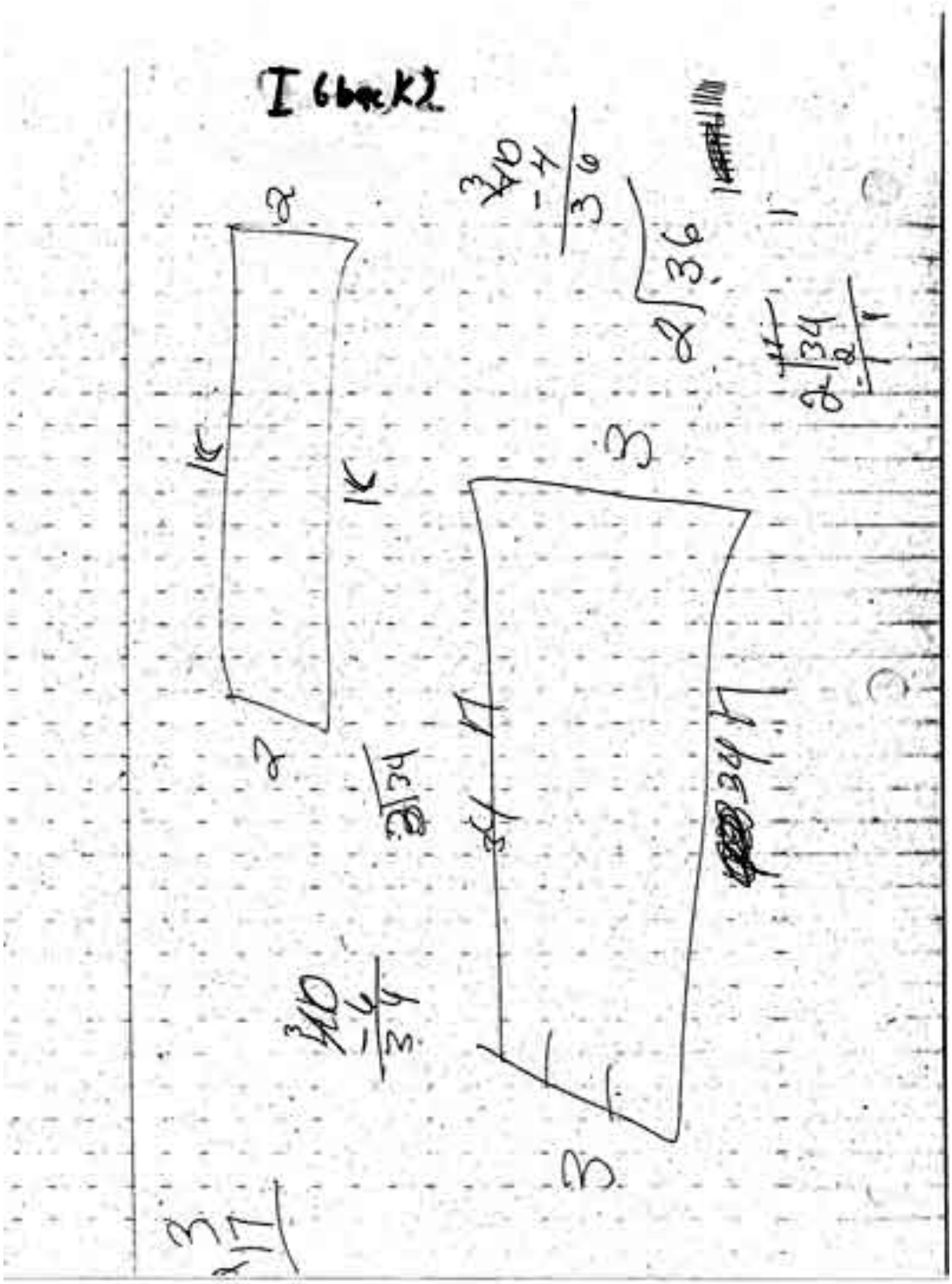
Dog Pen Problem Name [redacted]

A dog trainer wants to make the largest possible pen for his dogs. He has 40 feet of fence. What is the largest area the pen can have?

Length	Width	Perimeter	Area
7	13	40	91
9	11	40	99
1	19	40	18
2	18	40	
4	16	40	64
5	15	40	74

The rectangle with the largest area has a length of _____ and a width of _____.

TM 13: Student Work I (back)



TM 13: Student Work J

J

Dog Pen Problem Name [redacted]

A dog trainer wants to make the largest possible pen for his dogs. He has 40 feet of fence. What is the largest area the pen can have?

Length	Width	Perimeter	Area
7	13	40	91
19	1 9	40	18
2	18	40	
4	4	18	64
5	16		

The rectangle with the largest area has a length of _____ and a width of _____.